## **AMENDMENTS TO THE CLAIMS**

The listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A processor, comprising:

a physical register file populated by a number of registers;

an instruction decoder;

What Is Claimed Is:

a register alias table coupled to the instruction decoder;

an active list populated by a number of entries, the entries include an old field and a new field; and

a free list of unallocated physical registers reclaimed from said active list; and
a misprediction condition wherein said free list reclaims mispredicted allocated said
physical registers from said new field.

- 2. (Original) The processor of claim 1, further comprising an instruction window buffer having dispatched instructions.
- 3. (Original) The processor of claim 2, wherein said dispatched instructions correlate to evicted allocated physical registers, said free list reclaims said evicted physical registers when said dispatched instructions retire.
- 4. (Original) The processor of claim 1, wherein said instruction writes to said allocated physical register.
- 5. (Original) The processor of claim 1, wherein said allocated physical register is allocated from said free list.
  - 6. (Cancelled)

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- 7. (Original) The processor of claims 1, further comprising a bit field within said active list, said bit field comprising at least one bit to indicate whether the instruction is retired correctly.
- 8. (Original) A method for recovering registers in a processor, comprising:

  detecting an exception correlating to an instruction associated with an entry on an active list;

moving a pointer on said active list to an old field and a new field after said entry; and reclaiming allocated physical registers in said new field to a free list.

- 9. (Previously Presented) The method of claim 8, further comprising flushing instructions in an instruction window buffer after said instruction associated with a misprediction condition.
- 10. (Original) The method of claim 9, further comprising overwriting entries in said active list.
- 11. (Original) The method of claim 8, further comprising allocating unallocated physical registers from said free list to a register alias table.
- 12. (Original) The method of claim 11, further comprising moving evicted physical registers from said register alias table to said active list.
- 13. (Currently Amended) A method for recovering registers in a processor, comprising:

reading a bit in an active list;

reclaiming a physical register from <u>a new field of</u> said active list to a free list according to said bit; and

setting said bit during a misprediction condition.

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- 14. (Original) The method of claim 13, further comprising overwriting an entry in said active list.
  - 15. (Cancelled)
- 16. (Original) The method of claim 13, wherein said reclaiming includes reading said physical register from an old field in said active list.
- 17. (Original) The method of claim 13, wherein said reclaiming includes reading said physical register from a new field in said active list.
- 18. (Original) The method of claim 13, wherein said reading includes reading said bit in a bit field within said active list.
- 19. (Currently Amended) A register renaming apparatus within a processor, comprising:
  - a register alias table;
  - a first set of registers renamed by said register alias table;
- an active list having an old field and a new field that correlate to said registers; and a free list comprising a second set of registers reclaimed from said active list; and a misprediction condition wherein said free list reclaims mispredicted allocated said registers from said new field.
- 20. (Original) The apparatus of claim 19, wherein said said first set of registers correlate to non-retired instructions.
- 21. (Original) The apparatus of claim 19, wherein said active list includes a bit field.
- 22. (Original) The apparatus of claim 19, further comprising a pointer for said active list.

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